WEST Search History

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DATE: Tuesday, October 26, 2004

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	L23	metal-antibody cojugate	72			
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	L19	marzochi	6			
	L18	L15 and 17	2			
	L17	L15 and 18	2			
	L16	L15 and electrode	10			
	L15	metal-antibody cojugate	61			
	L14	metal-antibody and cojugate	0			
	L13	metal-antibody	2			
	L12	L11 and cojugate	1			
	L11	L10 and antibody	184			
	L10	L8 and metal	213			
	L9	L8 and electrode	44			
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	L6	scheiner	4442			
	L5	L4 and mrzochi	0			
	L4	toni scheiner	9622			
	L3	mrzochi	0			
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L23: Entry 70 of 72

File: DWPI

Mar 5, 1986

DERWENT-ACC-NO: 1986-063444

DERWENT-WEEK: 198610

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TITLE: New metal-antibody complexes - formed from covalent conjugate of antibody and chelatin

agent

INVENTOR: ALVAREZ, V L; GOERS, J W F ; LEE, C ; MCKEARN, T J ; RODWELL, J D ; SIEGEL, R C ;

GOERS, J W

PATENT-ASSIGNEE:

ASSIGNEE CODE

CYTOGEN CORP CYTON

PRIORITY-DATA: 1984US-0646328 (August 31, 1984), 1982US-0356315 (March 9, 1982), 1982US-04420

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(November 16, 1982), 1984US-0646327 (August 31, 1984)

PATI	PATENT-FAMILY:						
	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC		
	EP 173629 A	March 5, 1986	E	063			
	AU 8547701 A	March 24, 1986		000			
	CA 1260827 A	September 26, 1989		000			
	DE 3586188 G	July 16, 1992		000	G01N033/534		
	DK 8601951 A	April 29, 1986		000			
	EP 173629 B1	June 10, 1992	E	030	G01N033/534		
	JP 06234800 A	August 23, 1994		018	C07K015/22		
	JP 62500119 W	January 16, 1987		000			
	JP 94051720 B2	July 6, 1994		017	С07К015/12		
	JP 95033399 B2	April 12, 1995		017	C07K016/00		
	US 4741900 A	May 3, 1988		000			
	WO 8601410 A	March 13, 1986	E	000			
	ZA 8506358 A	February 21, 1987		000			

DESIGNATED-STATES: AT BE CH DE FR GB IT LI LU NL SE AT BE CH DE FR GB IT LI LU NL SE AU DK JP CITED-DOCUMENTS:3.Jnl.Ref; DE 3239410 ; 2.Jnl.Ref ; US 4367309 ; US 4454106 ; US 4472509

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PUI	3-NO	APPL-DATE		APPL-NO	DESCRIPTOR
EP	173629A	August 29,	1985	1985EP-0401695	
DE	3586188G	August 29,	1985	1985DE-3586188	
DE	3586188G	August 29,	1985	1985EP-0401695	
DE	3586188G			EP 173629	Based on
ΕP	173629B1	August 29,	1985	1985EP-0401695	
JP	06234800A	August 19,	1985	1985JP-0503820	Div ex
JP	06234800A	August 19,	1985	1993JP-0202208	
JP	62500119W	August 19,	1985	1985JP-0503820	
JP	94051720B2	August 19,	1985	1985JP-0503820	
JP	94051720B2	August 19,	1985	1985WO-US01556	
JР	94051720B2			JP 62500119	Based on
JP	94051720B2			WO 8601410	Based on
JP	95033399B2	August 19,	1985	1985JP-0503820	Div ex
JP	95033399B2	August 19,	1985	1993JP-0202208	
JP	95033399B2			JP 6234800	Based on
US	4741900A	August 31,	1984	1984US-0646328	
WO	8601410A	August 19,	1985	1985WO-US01556	
ZA	8506358A	August 21,	1985	1985ZA-0006358	

INT-CL (IPC): A23J 7/00; A61K 37/00; A61K 39/39; A61K 39/395; A61K 43/00; A61K 49/02; A61K 51/00; C07K 13/00; C07K 15/00; C07K 15/12; C07K 15/22; C07K 16/00; C12N 9/96; C12N 11/02; C1 1/58; G01N 33/53; G01N 33/534; G01N 33/577

RELATED-ACC-NO: 1983-766506;1986-083350 ;1987-334880 ;1988-347928

ABSTRACTED-PUB-NO: DE 3382572G

BASIC-ABSTRACT:

New metal complexes (I) comprises a metal ion co-ordination-bonded to a chelating agent in a novel conjugate (II) in which the chelating agent (III) is covalently bonded to an antibody o antibody fragment without affecting its immunoreactivity or immunospecificity, the covalent bond being located outside the antigen-binding region of the antibody or fragment.

USE - (I) are useful for delivering metal ions to target sites in vivo or in vitro, e.g. in immunoassays, for scintigraphic imaging of body tissues for tumour therapy. ABSTRACTED-PUB-NO:

EP 88695B

EQUIVALENT-ABSTRACTS:

Prepn. of an antibody conjugate comprises (1) exposure of the antibody or its fragment direct against an antigenic site to an oxidising agent to form aldehyde gps. in the carbohydrate moiety of the antibody or its fragment; (2) reaction of the aldehyde gps. with a hydrazine, hydrazide or amine gp. of a cpd. to form the conjugate.

Antibody conjugate comprising a cpd. attached through a covalent bond to a carbohydrate moiet of an antibody, the conjugate retaining the immunoreactivity and immunospecificity of the antibody, is new.

Prepn. of a modified antibody comprises (1) binding of the antibody or its fragment to a seco

antibody directed against the Fab portion of the antibody or fragment to form an immune complex; (2) attachment of a peptide linker, amino acid linker or linker of formula (I) W-(CH n-Q to the unbound portion of the antibody or its fragment, (W is -NHCH2 or -CH2; Q is an aminoacid, peptide, chelator or chelator deriv.; and n is 0-20). Then (3) dissociation of the immune complex is used to release the modified antibody from the second antibody; and (4) sep of the 2 antibodies. This procedure may be modified, e.g. an initial redn. may be used to giv an antibody or Fab' fragment haVing Sh gps.

The antibody conjugates are useful in affinity purification procedures and sepns.; they are also useful in the usual diagnostic procedures and as carriers for therapeutic agents or for tumour imaging agents. With the substrate linker attached, the antibodies retain the ability bind antigen and activate

A soluble antibody conjugate for a medical use comprising: a water-soluble therapeutic or diagnostic compound containing an amine group selected from the group consisting of secondary amine, hydrazine, hydrazide, hydroxylamine, phenylhydrazine and semicarbazide, attached throu a covalent bond to an aldehyde group of an oxidized carbohydrate moiety of an antibody or antibody fragment said covalent bond between said amine group and said aldehyde group being a enamine, hydrazone, oxime, phenylhydrazone, semicarbazone or a reduced form thereof, and said soluble antibody conjugate having (i) substantially the same immunoreactivity and immunospecificity as the unconjugated antibody or antibody fragment and (ii) aqueous solubility, such that the conjugate is suitable for in vivo administration.

EP 173629A

EP 173629B

An antibody-chelator conjugate, comprising: a compatible chelator attached through a covalent bond to an antibody or antibody fragment and capable of coordinate bonding to a metal ion, in which the covalent bond is between an amine of the compatible chelator and an aldehyde group an oxidised carbohydrate moiety of the antibody or antibody fragment, said antibody-chelator conjugate having substantially the same immunoreactivity and immunospecificity as the unconjugated antibody or antibody fragment, and wherein the covalent bond is (i) selectively formed at a site located outside the antigen binding region of the antibody or antibody fragment and (ii) selected from an amine, an enamine, hydrazone, oxime, phenylhydrazone, semicarbazone, thiosemicarbazone and a reduced form thereof.r

US 4741900A

Prepn. of an antibody-chelator conjugate comprises reacting an antibody (fragment) with an oxidising agent to form an aldehyde gp. in the carbonhydrate moiety. The carbohydrate gp. is not part of nor directly involved with an antigen binding site. The aldehyde gp. is reacted with a chelator contg. a prim. amine, hydrazine, hydrazide, hydroxylamine, phenylhydrazine or (thio) semicarbazide gp. to form a water soluble antibody-chelator conjugate.

USE/ADVANTAGE - In therapy and diagnosis. The conjugate has the same immunospecificity as the unconjugated antibody (fragment) and aq. solubility such that when reacted with metal ion, th conjugate is suitable for in vivo admin. The metal ion can be a radioisotope. (22pp)j

CHOSEN-DRAWING: Dwg.0/5

TITLE-TERMS: NEW METAL ANTIBODY COMPLEX FORMING COVALENT CONJUGATE ANTIBODY CHELATE AGENT

DERWENT-CLASS: B04 D16 K08 S03

CPI-CODES: B04-B04C5; B05-A04; B06-A03; B10-A09B; B10-B01B; B10-C02; B12-G07; B12-K04; B12-K0 D05-H09; K09-B; K09-E;

EPI-CODES: S03-E14H4;

CHEMICAL-CODES:

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    H183 H401 H481 H498 H598 J0 J011 J012 J013 J014
    J172 J173 J271 J3 J331 J341 J371 J372 J373 K431
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Chemical Indexing M6 *02*
Fragmentation Code
M903 P210 P220 P241 P431 P433 P633 P831 Q233 Q444
Q504 R306 R515 R614 R621 R626 R639

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0793S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-027034 Non-CPI Secondary Accession Numbers: N1986-046423

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	L56	L55 and mammal	148
	L55	L54 and method	148
	L54	L53 and between	148
	L53	L52 and across	148
	L52	L51 and specific	153
	L51	L50 and substrate	153
	L50	L49 and autoimmune	153
	L49	L47 and conjugate	182
	L48	L47 and cojugate	0
	L47	L46 and metal	188
	L46	L45 and measure	193
	L45	L44 and bound	201
	L44	L43 and antibody	202
	L43	L42 and antigen	202
	L42	L41 and current	207
	L41	L40 and voltage	219
	L40	L39 and IgG	266
	L39	L38 and electrode	675
	L38	immobiliz? and spot	2981
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L23	metal-antibody cojugate	72		
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L20	marzo	249		
L19	marzochi	6		
L18	L15 and 17	2		
L17	L15 and 18	2		
L16	L15 and electrode	10		
L15	metal-antibody cojugate	61		
L14	metal-antibody and cojugate	0		
L13	metal-antibody	2		
L12	L11 and cojugate	1		
L11	L10 and antibody	184		
L10	L8 and metal	213		
L9	L8 and electrode	44		
L8	L7 and toni	725		
L7	scheiner	4192		
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L4	toni scheiner	9622		
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END OF SEARCH HISTORY

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	L69	L68 and conjugate	426
	L68	L66 and antibod?	911
	L67	L66 and cojugate	1
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	L64	L63 and detection	34207
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	L62	protein and ligand	64513
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	L57	L56 and disease	148
	L56	L55 and mammal	148
	L55	L54 and method	148
	L54	L53 and between	148
	L53	L52 and across	148
	L52	L51 and specific	153
	L51	L50 and substrate	153
	L50	L49 and autoimmune	153
	L49	L47 and conjugate	182
	L48	L47 and cojugate	0
	L47	L46 and metal	188
	L46	L45 and measure	193

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	L45	L44 and bound	201
	L43 L44	L43 and antibody	201
	L44 L43	L42 and antigen	202
	L43 L42	L41 and current	207
Г	L42 L41	L40 and voltage	219
	L41 L40	L39 and IgG	266
	L40 L39	L38 and electrode	675
	L39	immobiliz? and spot	2981
	L36	L34 and coduction	0
	L37	L34 and immoblize	0
	L35	L34 and immobiliz?	0
	L33		5688
	L34 L33	L33 and assay ecl	150951
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	L23	metal-antibody cojugate	72
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	L20	marzo	249
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	L18	L15 and 17	2
	L17	L15 and 18	2
	L16	L15 and electrode	10
	L15	metal-antibody cojugate	61
	L14	metal-antibody and cojugate	0
	L13	metal-antibody	2
	L12	L11 and cojugate	1

	L11	L10 and antibody	184	
	L10	L8 and metal	213	
	L9	L8 and electrode	44	
	L8	L7 and toni	725	
	L7	scheiner	4192	
DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI; PLUR=YES; OP=OR				
	L6	scheiner	4442	
	L5	L4 and mrzochi	0	
	L4	toni scheiner	9622	
	L3	mrzochi	0	
	L2	mrzochi	0	
	L1	mrzochi	0	

END OF SEARCH HISTORY